

Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	http://www.glencoe.com
Title:	CARPENTRY & BUILDING CONSTRUCTION		
Author:	Feirer, Feirer	Copyright:	2004
ISBN:	007822702X	Course/Content Area:	CONSTRUCTION TECH
Intended Grade or Level:	9-12	Readability Level:	11 Fry
List Price:	N/A	Lowest Wholesale Price:	46.98

Level of Accommodations (Level One, Two or Three)

If Level Two or Three, please provide rationale for not meeting Level One Compliance: The cost of compliance at any level is too high given the low enrollment in this curriculum area.

FEATURES*

***DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Content

Carpentry & Building Construction provides a comprehensive approach to residential and light commercial construction. The entire construction process from planning, estimating and scheduling through the finishing touches, painting and flooring, are covered. Framing, both wood frame and steel frame, receive very in-depth coverage. Content includes tools and equipment, framing, closing in the structure, finish carpentry, and completing the structure. Up-to-date drawings and photos help illustrate details. Features like Step-by-Step present a clear sequence of techniques given to complete a given task, From Another Angle highlights carpentry work practices that vary from one part of the country to another. Safety First emphasizes safety on the job and Estimating provides step-by-step practice using formulas to prepare material and labor estimates.

Student Experiences

Students using *Carpentry & Building Construction* will be engaged doing the hands-on of actual construction. They learn about jobs available in the construction industry, and the employability skills they will need, like writing, reading, speaking and mathematics. Students are involved learning from bulleted lists, photos, line drawings, and actually doing tasks themselves. They will estimate excavating volume, the number of masonry blocks needed, and labor costs. They will learn by doing.

Assessment

Students using *Carpentry & Building Construction* will be able to self-evaluate using the end-of-Section Check Your Knowledge questions as well as the end-of-Chapter Review Questions. Even more, they will be able to evaluate their on-the-job tasks. Instructors will have Chapter Tests available for each Chapter in the Instructor Resource Guide, and **ExamView®** computerized test generator to customize their own tests.

Organization

Carpentry & Building Construction is divided into 8 Units and 45 Chapters, further divided into Sections within each Chapter. Each Chapter has bulleted Objectives and Terms. Each Section within the Chapter uses line drawings to illustrate exactly what the reading context develops. Vocabulary is highlighted in color. Each Section ends with Check Your Knowledge questions. Each Chapter has Section Summaries and Review Questions. The clear topic headings and illustrations work together to make reading easier to follow.

Program Description/Textbook or Print Instructional Material

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free, 1 Per Teacher: Instructor Resource Guide, Instructor Productivity CD-ROM, Safety Guidebook

- **Available Ancillary Materials**

All Items Listed Above as Gratis Items

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

****DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Research Data

Carpentry & Building Construction builds on the research conducted for previous editions consisting of instructor surveys and instructor interviews. Research and development for this new edition involved the review of illustrations and the updated manuscript from outline to finished stage by experienced carpentry and construction technology instructors and apprenticeship programs. The author of the program has wide industry contacts, he was quickly able to research and verify emerging trends in construction technology. This process of research and review helped identify topics of interest and determined the focus and depth of coverage necessary. All information was verified for accuracy.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IE Construction Technology Career Cluster



Title: Carpentry and Building Construction \$46.98

Publisher: Glencoe/McGraw-Hill

Item Evaluated: Textbook and Instructor's Resource Guide and Safety Guidebook and CD ROM

Copyright Date: 2004

Evaluator: Wilson/Tomlinson

Content Level: 9-12

Date of Evaluation 7/31/03

Level of Alternative Format

Level 1 – Full Compliance

Level 2 – Provisional Compliance

Level 3 – Marginal Compliance

This section completed by Exceptional Children Services

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:

☒ Recommended by reviewers to State Textbook Commission

☐ Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
IE Construction Technology Career Cluster**



Title: Carpentry & Building Construction		Publisher Glencoe/McGraw-Hill
Technology Management Summary Data:	20 possible points	_____18_____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	36 possible points	____39_____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	144 possible points	____27_____ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	____44_____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	____34_____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	____22_____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for IE Construction Technology Career



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy _____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version _____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of ____ copies _____ online
DVD	High		In lieu of basal test	
Sound				
Other				

If other, explain

Type of Software: Check all that apply	_____ Simulation	<input checked="" type="checkbox"/> Management	_____ Interdisciplinary	_____ Problem Solving	<input checked="" type="checkbox"/> Tutorial
_____ Exploratory	_____ Creativity	<input checked="" type="checkbox"/> Drill and Practice	_____ Critical Thinking	<input checked="" type="checkbox"/> Utility	_____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	3
Allows students to exit and resume at a later time.	3
Keeps a students performance record, where needed.	4
Allows control of various aspects of the software (e.g., turning sound off).	4
Allows for printed reports.	4
Comments:	Total
	18

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	4
Has developmentally correct presentation format.	4
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	4
Accessible for special needs students.	4
Runs smoothly, without long delays.	4
Presents easy-to-view text and graphics.	4
Presents easy-to-hear and understand sounds.	4
Avoids unnecessary screens, sounds, and graphics.	4
Provides immediate, appropriate feedback.	3
Comments:	Total
	39

Content—IE Construction Technology Career Cluster	Rating
Introduction to Masonry	0
Advanced Masonry	0
Masonry Lab	2
Brick Construction	0
Special Techniques in Brick Construction	0
Blueprint Reading in Construction	3
Anchors and Reinforcement	0
Power Tools and Maintenance	4
Site Layout and Foundations	4
Floor and Wall	4
Ceiling and Roof	0
Direct Current Circuits/Lab	0
Alternative Current Circuits/Lab	0
Transformers/Lab	0
Devices and Circuits/ Lab	0
Electrical Drafting	0
National Electrical Code	0
Electrical Construction/Lab	2

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content—IT Construction Career Cluster	Rating
Plumbing Fundamentals/ Lab	2
Technical Communications	0
Fundamentals of Drawing 1 and 2	0
Color Theory Applications	0
Traditional Layout and Graphic Design	0
Screen Printing	0
Computer Graphic Design/Lab	0
Computer Illustration/Lab	0
Electrical/Electronic Safety	0
Direct Current Circuits/Lab	0
Alternating Current/Lab	0
Electrical Circuit Analysis	0
Electronic Drafting	0

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content—IT Construction Career Cluster	Rating
Microcomputer Operating Systems	0
Basic Drafting 1 and 2	0
CAD	0
Basic Blueprint Reading	2
Pictorial Drawing	0
Illustration Techniques and Working Drawings	0
Basic Welding and Industrial Drafting Processes	0
Threads and Fasteners/Gears and Cams/Pipe Drafting	0
Comments:	Total 27

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	4
Engages Students	4
Develops Computer Maintenance Ideas	0
Promotes Student Thinking	4
Assesses Student Progress	3
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	2
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	3
Comments:	Total 44

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	2
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 34

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	4
Extension activities including adaptations and accommodations for students with special needs.	2
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	3
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	1
Online resources available – Repeat of information in text.	1
Online resources available – Practice skills only.	1
Online resources available – New application materials.	1
Comments:	Total 22
Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable